

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 AT WASHINGTON AVENUE IN BALTIMORE COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A SIZE 6 BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED SYSTEM MODE UTILIZING 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR SHA DISTRICT #4 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781
MR. DAVE RAMSEY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (410) 321-2761
MR. JOSEPH D. McMAHON, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 321-2841
MR. RICHARD L. DUFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. THE ROAD CONTRACTOR MUST NOTIFY THE COUNTY FOR REMOVAL AND INSTALLATION OF RED LIGHT RUNNING CAMERA EQUIPMENT. ALL COSTS ASSOCIATED WITH RED LIGHT RUNNING CAMERA AND LOOPWIRE INSTALLATION SHALL BE PAID FOR AND INSTALLED BY THE COUNTY PRIOR TO THE FINAL GRADE OF ROADWAY SURFACE.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
971017	SYSTEM READY CABINET SIZE 6 WITH VIDEO INTERFACE EQUIPMENT	EA	1
973032	FLAT SHEET ALUMINUM SIGNS, (BLUE OR GREEN)	SF	150
	GUIDE SHIELD ASSEMBLY (24"X51")	EA	2
	GUIDE SHIELD ASSEMBLY (36"X75")	EA	2
	R3-5(R) (30"X36")	EA	2
	R3-5(L) (30"X36")	EA	2
	R10-11B (24"X24")	EA	1
	R10-12 (36"X42")	EA	2
	SPECIAL (30"X36")	EA	1
	D3-2 (VAR.X16")	EA	4

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

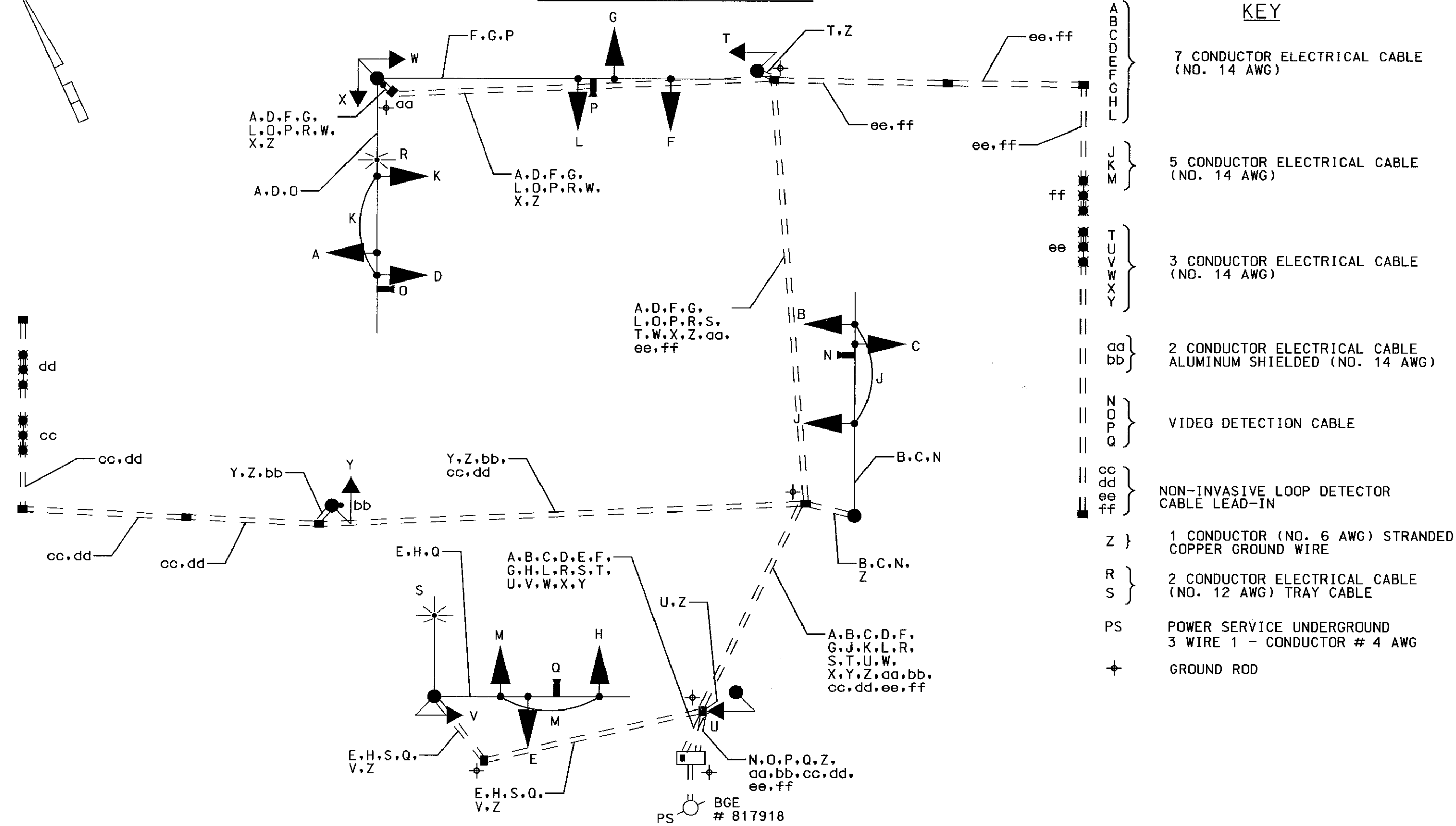
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	EA	6
585624	24" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	150
585620	12" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	620
585622	16" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	20
860270	8" SIGNAL HEAD SECTION	EA	12
860272	12" SIGNAL HEAD SECTION	EA	38
866103	15' LIGHTING ARM FOR SIGNAL STRUCTURE	EA	2
831010	250 WATT HPS LAMP & LUMINAIRE W/PHOTOCELL	EA	2
810601	NONINVASIVE DETECTOR 500 FT. LEAD IN CABLE	EA	4
818051	MAST ARM POLE AND 50' & 70' TWIN MAST ARM	EA	1
818030	MAST ARM POLE AND 38' MAST ARM	EA	1
800000	MAST ARM POLE AND 50' SPECIAL "T" MAST ARM	EA	1
818004	10' PEDESTAL POLE	EA	3
812002	6" X6" WOOD POST	LF	20
860282	12" PED. SIGNAL HEAD PED. POLE MOUNT	EA	6
860278	12" PED. SIGNAL HEAD POLE MOUNT	EA	6
805125	2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	20
805140	4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	120
805135	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	650
805150	3" SCHED. 80 PVC CONDUIT - SLOTTED	LF	190
805155	4" SCHED. 80 PVC CONDUIT - SLOTTED	LF	360
861116	2 COND., NO. 12 AWG TRAY CABLE	LF	335
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	20
832020	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	290
811001	HANDHOLE	EA	13
801607	INSTALL OVERHEAD SIGN	SF	170
837001	GROUND ROD	EA	7
800000	INSTALL GROUND MOUNTED SIGN	EA	1
807400	CONTROL AND ELECTRIC UTILITY SERVICE EQUIPMENT 120/240V. 60 AMPS	EA	1
832017	1-COND., NO. 4 AWG ELECT. CABLE	LF	120
861105	2-COND., NO. 14 AWG ELECT. CABLE	LF	530
861106	3-COND., NO. 14 AWG ELECT. CABLE	LF	530
861107	5-COND., NO. 14 AWG ELECT. CABLE	LF	770
861108	7-COND., NO. 14 AWG ELECT. CABLE	LF	1170
871202	INSTALL CONTROLLER AND CABINET - BASE MT.	EA	1
816001	VIDEO DETECTOR CAMERA	EA	4
816005	PRE-MANUFACTURED CABLE CAMERA TO CONTROLLER (250' LENGTH CABLE)	EA	4
865001	PUSHBUTTON AND SIGN	EA	2
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET, THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	-R/G	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PED CLEARANCE	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	FL/DWFL/DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	-R/G	R	R	R	WK	DW	DW	WK	DW	DW
PED CLEARANCE	R	R	R	←G/G	←G/G	G	R	R	-R/G	R	R	R	FL/DW	DW	DW	FL/DW	DW	DW
2 AND 5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	-R/Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DWFL/DWFL/DWFL/DW	DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	FL/DWFL/DW	DW
3 ALT CHANGE	R	R	R	R	R	R	R	R	R	←Y	←Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	←G	←G	-G/G	R	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	-Y/Y	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN

MD 26 (LIBERTY ROAD) AT WASHINGTON AVENUE

SABRA, WANG & ASSOCIATES, INC.
1506 40H AVENUE
SUITE 180
BALTIMORE, MD 21227
WWW.SABRA-WANG.COM

DRAWN BY: S. SMITH	F.A.P. NO. BA3795172	TS NO.	SHEET NO.
CHECKED BY: I" = 20'	COUNTY: BALTIMORE	T.J.M.S. NO. E541	82 OF 107
SCALE: MAY, 2002	LOG MILE: 03002607.97		